

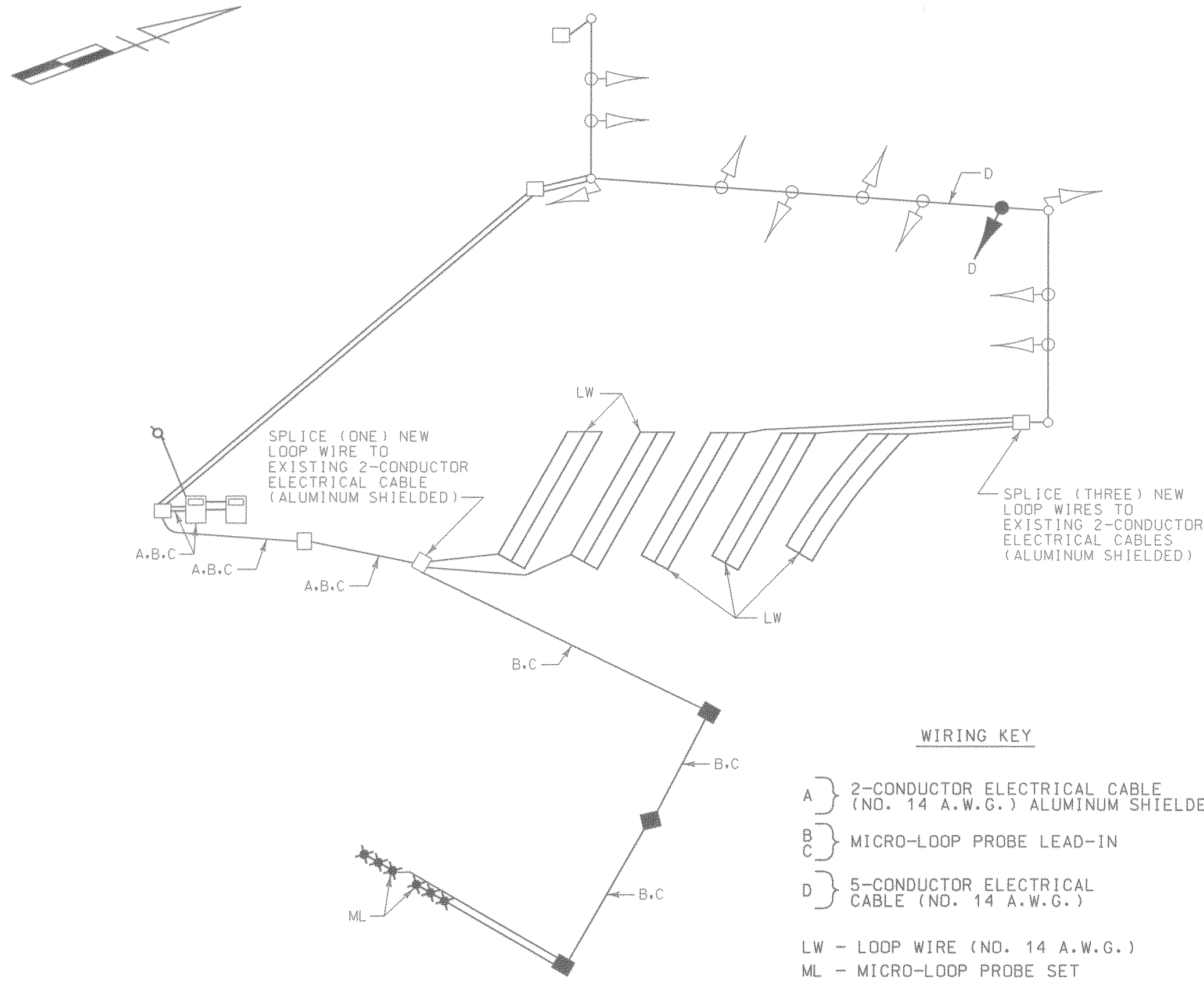
MODIFIED PAVEMENT MARKING PLAN
SCALE : 1" = 40'

NOTE: THE MODIFIED PAVEMENT MARKING PLAN IS A REVISION TO THE PLAN INCLUDED IN THE BILLINGSLEY ROAD PHASE 3A CONTRACT.

CONSTRUCTION DETAILS

- A. 6 IN. SOLID WHITE PERMANENT PREFORMED MARKING TAPE.
B. 16 IN. SOLID WHITE PERMANENT PREFORMED MARKING TAPE AT 40 FT. SPACING.
C. PERMANENT PREFORMED PAVEMENT MARKING ARROW.
D. 6 IN. SKIP WHITE (2 FT. LINE - 6 FT. SPACE) PERMANENT PREFORMED MARKING TAPE.
E. PERMANENT PREFORMED PAVEMENT MARKING "ONLY".

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 2 + 5	←R→	←R→	R	R	←G→	←G→	G	G	R	R	R	R	R
2 + 5 CHANGE	←R→	←R→	R	R	←Y→	←Y→	G	G	R	R	R	R	R
PHASE 2 + 6	←R→	←R→	G	G	←R→	←R→	G	G	R	R	R	R	R
2 + 6 CHANGE	←R→	←R→	G	G	←R→	←R→	Y	Y	R	R	R	R	R
PHASE 1 + 6	←G→	←G→	G	G	←R→	←R→	R	R	R	R	R	R	R
1 + 6 CHANGE	←Y→	←Y→	Y	Y	←R→	←R→	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	←G→	G	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	←G→	G	G	G
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	←FL/R→	←FL/R→	FL/Y	FL/Y	←FL/R→	←FL/R→	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT.

STANDARD NO. MD-104.00-104.00-12

STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)

STANDARD NO. MD-104.49-01 (SHOULDER WORK)

STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)

ULTIMATE TRAFFIC STAGE

REVISIONS	APPROVALS	REVISIONS
	ASSISTANT DIVISION CHIEF	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

WR&A
Whitman, Reardon and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

PROJECT DESCRIPTION

GENERAL

THE FINAL STAGE OF THE PROJECT INVOLVES MODIFYING THE EXISTING TRAFFIC CONTROL SIGNAL AT U.S. 301 AND BILLINGSLEY ROAD IN CHARLES COUNTY. U.S. 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME AS STAGE 2, THAT IS, A NEMA SIX PHASE, FULLY-ACTUATED MODE WITH THE U.S. 301 APPROACHES RUNNING CONCURRENTLY AND THE BILLINGSLEY ROAD APPROACHES OPERATING WITH SPLIT PHASES.

A LEAD EXCLUSIVE LEFT-TURN PHASE WILL BE PROVIDED FOR SOUTHBOUND U.S. 301 AND LAG EXCLUSIVE LEFT-TURN PHASE FOR NORTHBOUND U.S. 301.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER INSTALLED DURING STAGE 1 WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

QUANTITY	DESCRIPTION
1 EACH	12 IN., ONE-WAY, THREE-SECTION (R,Y,G) TRAFFIC SIGNAL HEAD AND TETHER CLAMP WITH ADJUSTABLE BRACKET FOR SPAN MOUNTING AND TUNNEL VISORS.
2 EACH	MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN.
12 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF: - 1 EACH R7-7R SIGN (30 IN. X 30 IN.) - GROUND MOUNT. - 1 EACH R10-7 SIGN (24 IN. X 30 IN.) - GROUND MOUNT.

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

QUANTITY	DESCRIPTION
LUMP SUM	MAINTENANCE OF TRAFFIC
7 U.D.	ARROW PANEL
170 L.F.	REMOVAL OF EXISTING PAVEMENT MARKINGS - ANY WIDTH
LUMP SUM	MOBILIZATION
660 L.F.	6 IN., WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
220 L.F.	16 IN., WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
8 EACH	PERMANENT PREFORMED PAVEMENT MARKING ARROW
12 EACH	PERMANENT PREFORMED PAVEMENT MARKING LETTER
145 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
145 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
90 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
60 L.F.	FURNISH AND INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
1 EACH	INSTALL 12 IN., ONE-WAY, THREE SECTION (R,Y,G) SIGNAL HEAD - SPAN MOUNT
110 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
30 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
2540 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14. A.W.G.)
850 L.F.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
30 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORT (4 IN. X 4 IN.)
2 EACH	INSTALL MICROLOOP PROBE SET
12 S.F.	INSTALL GROUND MOUNTED SIGN
2 EACH	RELOCATE EXISTING SIGNAL HEAD
1 EACH	USE EXISTING PLAN OR DISK AND AS-BUILT TRAFFIC CONTROL DEVICES

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

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PGM #94-123



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
U.S. 301 AND BILLINGSLEY ROAD

DATE: 3-31-97	DRAWN BY: S.BLOSS	F.A.P. NO.	PLAN SHEET NO.: TS-2484B CI	SHEET NO. 6 OF 6
SCALE: NONE	DESIGNED BY: N.LEARY	S.H.A. NO.		
APPROVED BY:	CHECKED BY: T.HANNAN	COUNTY	CHARLES	